



U.S. Department of Energy
Office of Electricity Delivery & Energy Reliability

Hurricane Sandy-Nor'easter Situation Report #4

November 9, 2012 (10:00 AM EST)

http://www.oe.netl.doe.gov/emergency_sit_rpt.aspx

Highlights:

- Beginning November 7th, a Nor'easter impacted the Mid-Atlantic and Northeast with strong winds, rain or snow, and coastal flooding. At 8:00 pm EDT October 29, the National Hurricane Center reported Sandy made landfall near Atlantic City, NJ as a post tropical cyclone.
- As of 9:00 am EST November 9, there are 492,080 customers without power in the affected States impacted by Hurricane Sandy and the Nor'easter. This is a decrease of 269,338 customer outages from yesterday's 3:00 pm Situation Report #3. The combined total peak customer outages from Hurricane Sandy and the Nor'easter (reported in the Situation Reports) are 8,661,527: 8,511,251 from Hurricane Sandy and 150,276 from the Nor'easter Storm, respectively.
- Restoration estimates and efforts by electric utilities are reported below.

Summary

Electric Outages by State					
Impacted State	Current Customer Outages	Percentage of Customers Without Power	Peak Outages Attributed to Hurricane Sandy	Peak Outages Attributed to Nor'easter	Total Customers Restored Since Peak for Both Storms
New Jersey	248,512	6%	2,615,291	22,083	2,388,862
New York	230,889	3%	2,097,933	102,885	1,969,929
West Virginia	12,679	1%	271,765	0	259,086
TOTAL:	492,080				

Note: States with fewer than 1,000 outages are not included in the table. Due to a large number of service providers, including investor owned utilities and cooperatives, the number of customer outages reported may not be comprehensive. Customer outages are representative of specific Situation Report reference dates and times.

Sources: Outages obtained from company web sites and DOE communications. Total State customers are based on 2011 EIA Customer Data.

- New York City and Nassau and Suffolk County in New York implemented temporary fuel management measures which take effect today, November 9. An “odd-even” rule will be used to purchase gasoline for non-commercial vehicles. The duration of the fuel management plan will be determined by the counties and New York City in coordination with the State of New York.
- Yesterday (November 8) the Energy Information Administration (EIA) updated its report on the Retail Motor Gasoline Supply in the New York City Metropolitan Area. Based on an emergency survey of gasoline availability, EIA estimates that 28 percent of gas stations in the New York metropolitan area do not have gasoline available for sale. This is a decrease from the November 7th estimate of 38 percent. The full results and the methodology can be found at: http://www.eia.gov/special/disruptions/hurricane/sandy/gasoline_updates.cfm



ESF 12 Actions:

- ESF 12 is staffing the FEMA National Response Coordination Center (NRCC) in Washington, DC; the FEMA Region II Regional Response Coordination Center (RRCC) in Colts Neck, NJ, the FEMA Interim Operation Facility in Hartford, CT, New Jersey State EOC in West Trenton, NJ, and the New York State EOC in Albany, NY. **ESF-12 plan to staff the FEMA New York and New Jersey Joint Field Offices (JFO) this weekend.**

Petroleum & Natural Gas Information:

Refineries

- A list of refineries impacted by Hurricane Sandy is presented in the table below.

Refineries in the Path of Sandy as of 8:00 am EST 11/9/12						
Refinery	Location	Capacity (B/D)				
		Operating Capacity*	Shut Down	Restarting	Reduced Runs	Normal
Hess*	Port Reading, NJ	70,000	X			
Monroe Energy	Trainer, PA	185,000				X
PBF	Delaware City, DE	182,200				X
PBF	Paulsboro, NJ	160,000				X
Philadelphia Energy Solutions (Sunoco)	Philadelphia, PA	335,000				X
Phillips 66	Linden, NJ	238,000	X			
TOTAL		1,170,200	308,000	0	0	862,200

Note: The table does not include asphalt refineries or facilities already closed in prior years.

*The Hess Port Reading, NJ facility does not process crude, but processes gas oils to produce petroleum products.

Sources: Confirmed by company or on company web site. Various trade press sources

Petroleum Terminals

- A total of 57 terminals in the path of Hurricane Sandy have reported on their status in the aftermath of the storm. **As of 8:00 am today (November 9), reports indicate that 50 terminals are open and 7 terminals are shut.** The tables below lists terminals that remain shut or that have recently re-opened.

Status of Petroleum Terminals as of 8:00 am EST 11/9/12				
Company	City	State	Status	Date Stamp
Hess	Bayonne	NJ	Shut	11/3/12
CITGO	Linden	NJ	Shut	11/5/12
Hess	Newark	NJ	Shut	11/2/12
Motiva	Newark	NJ	Shut	10/31/12
Phillips 66	Tremley Point	NJ	Shut	11/3/12
Motiva	Brooklyn	NY	Shut	10/31/12
Motiva	Long Island	NY	Shut	10/31/12

Sources: Confirmed by company or on company web site. Various trade press sources

Electric Restoration Information

New Jersey

- The State of New Jersey released power restoration plans from Public Service Electric and Gas, Jersey Central Power and Light, Atlantic City Electric, and Orange & Rockland. The restoration

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U.S. Department of Energy Office of Electricity Delivery & Energy Reliability

plans are updated daily and can be found in the “Information Sources” section at:
http://www.state.nj.us/nj/home/features/spotlight/hurricane_sandy.shtml.

- Public Service Electric and Gas (PSE&G) reported last night (November 8) they have over 4,000 out-of-state workers and 700 PSE&G technicians working on restoration. Since service restoration began, PSE&G has replaced at least 2,500 poles and 1,000 transformers, as well as cut down 41,000 trees, to repair widespread damage from the hurricane. The company continues to estimate that customers impacted by Sandy will be restored by the end of the day today.
- Orange and Rockland (O&R), serving New Jersey, New York, and Pennsylvania estimated today (November 9) that O&R remains on track to return power by day’s end tomorrow to almost all of its customers who lost electric service as a result of Hurricane Sandy. The company will continue to restore power to those scattered isolated areas remaining without power in to next week. The company stated that the vast majority of the 580 outstanding repair incidents involve fewer than 30 customers each. Repairs are also ongoing to approximately 640 individual service lines torn down by the storms. In New Jersey; outages are concentrated in Bergen and Passaic counties. O&R team totals over 3,500 workers, including 1,000 employees and 2,500 contract personnel and is working to restore power to those customers who were affected by Sandy and the Nor’easter.
- Jersey Central Power & Light (JCP&L), a FirstEnergy subsidiary, reported yesterday (November 8) that they estimate their customers affected by Hurricane Sandy will all be restored by the end of the weekend. The utility also estimated that customers who lost power due to the Nor’easter would be restored throughout next week. Monmouth and Ocean counties, which were some of the utility’s areas hardest hit by Sandy, also were the hardest hit by the Nor’easter. The company stated that many customers along barrier islands and coastal towns of Monmouth and Ocean counties cannot be completely restored because of severe damage to homes, business, roads, and infrastructure. Approximately 1,600 additional linemen arrived in New Jersey yesterday (November 8) to join nearly 14,000 Jersey Central Power and Light (JCP&L) employees, FirstEnergy professionals, outside contractors, and utility workers who are concentrated on restoring power following last week’s Hurricane Sandy and the Nor’easter.

New York

- Con Edison reported last night (November 8) that thousands of Con Edison crews are continuing to work to restore the remaining three percent of customer outages this weekend that remain as a result of Sandy and the Nor’easter. The majority of remaining outages are concentrated in Westchester and Queens, with smaller numbers in Brooklyn, the Bronx, Manhattan, and Staten Island. Many of the outages still left in the company’s service area involve small numbers of customers. In Westchester, there are approximately 3,600 restoration jobs that involve 11 or fewer customers. The company is also working with the New York City Buildings Department to expedite the restoration of an additional 35,000 customers in Staten Island, Brooklyn and Queens whose electrical equipment may have been damaged by flooding and cannot be safely re-energized without repairs by an electrician. More than 3,000 outside utility workers from as far away as California are working in New York City and Westchester County to assist in restoration efforts.
- Long Island Power Authority (LIPA) reported yesterday (November 8) that the Nor’easter will delay their restoration efforts. While working to restore power, LIPA is also deploying several surveying crews to better understand the damage caused by the storms. LIPA stated that they have restored 43 of the 50 substations that were out of power. Over 14,000 restoration workers, including 8,200 linemen and tree workers from throughout the country, are working to restore power. LIPA has deployed restoration crews to build a bypass system to get transmission to the Rockaway Beach



U.S. Department of Energy Office of Electricity Delivery & Energy Reliability

substation. The company is working together with National Grid on the restoration of the Rockaway Peninsula in Queens. A taskforce consisting of LIPA, National Grid, and the New York City Office of Emergency Management is making door-to-door inspections to determine which homes and business in Rockaway are structurally safe and fit to accept power safely. The inspections are being done with the help of local electricians and plumbers. LIPA is also working with local authorities in Nassau and Suffolk Counties to make sure it is safe to restore power where water damaged electrical panels, wires, outlets, and appliances in homes and business. In areas that were flooded along the south shore, south of Atlantic Avenue, Merrick Road, and Montauk Highway, teams of inspectors are conducting assessments of homes and business. Visual inspections are underway in towns of Merrick, Bellmore, Wantagh, Seaford, Massap, and Massap Park. The assessments are at no cost to the homeowner or business and are to determine whether electric service can be safely restored or if repairs will first be required.

- **New York State Electric and Gas (NYSEG) reported yesterday (November 8) that it expected to restore power to all customers who lost power as the result of damage from Hurricane Sandy or the Nor'easter by last night.** Their restoration team has 3,500 front line and support personnel and includes more than 700 line and tree crews from as far away as British Columbia, Nova Scotia, Missouri, North Carolina, Texas and Minnesota are on the job. **Once all service is restored, activities such as circuit checks, making additional repairs where temporary repairs were made, and general clean-up will be conducted.**
- **Orange and Rockland (O&R), serving New Jersey, New York, and Pennsylvania estimated today (November 9) that O&R remains on track to return power by day's end tomorrow to almost all of its customers who lost electric service as a result of Hurricane Sandy.** The company will continue to restore power to those scattered isolated areas remaining without power in to next week. **The company stated that the vast majority of the 580 outstanding separate outage incidents involve fewer than 30 customers each. Repairs are also ongoing to approximately 640 individual service lines torn down by the storms.** In New York, outages are concentrated in Rockland and Orange counties with smaller numbers in Sullivan County. O&R team totals over 3,500 workers, including 1,000 employees and 2,500 contract personnel and is working to restore power to those customers who were affected by Sandy and the Nor'easter.

West Virginia

- **Mon Power, a First Energy Corp. subsidiary, reported yesterday (November 8) that, in West Virginia, restoration activities center on repair of damage caused by high winds and deep snow in the higher elevations. More than 350 off-road distribution poles have been replaced, and work continues on replacing an additional 300 off-road poles. The majority of the remaining Mon Power customers are expected to be restored by midnight tonight. Restoration for customers in the most heavily damaged areas, including parts of Barbour, Braxton, Clay, Nicholas, Preston, Randolph, Tucker, Upshur, and Webster counties, may continue into the weekend.**